



Inches	mm	Inches	mm	Inches	mm
.005	0.13	.038	0.97	.364	9.25
.008	0.20	.055	1.40	.432	10.97
.012	0.30	.072	1.83	.438	11.13
.025	0.64	.160	4.06	.469	11.91
.030	0.76	.200	5.08	.572	14.53
.032	0.81	.240	6.10	.687	17.45
				.750	19.05

# NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ±.010 (0.25 mm) on decimals and ±5° on angles.
4. For hardware detail specification see appendix of MIL-S-8834.
5. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
6. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation shall form a part of this standard to the extent specified herein.
7. Toggle seal test. Method I for 700 & 800 series. Method II for 200 & 300 series.
8. The switch shall be electrically and mechanically operative at the conclusion of the shock test with 2000 foot pounds except there can be transfer of the contact mechanism at all levels when tested in accordance with MIL-STD-202, method 207.
9. Terminals: Gold plated.
10. Weight. .0429 pound maximum (19.4 grams).
11. Strength of terminals. 5 pounds normal to the mounting plane and 1 pound in other planes.
12. Altitude: 50,000 feet.
13. 115 V ac 60 hertz electrical endurance tests are to be performed at room temperature and pressure.
14. Terminals need not be marked. Terminal identification is shown for reference purposes only.

(H) Denotes changes

PREPARING ACTIVITY Air Force-85 CUSTODIANS ARMY NAVY AS AIR FORCE DLA	<b>MILITARY SPECIFICATION SHEET</b> TITLE SWITCH, TOGGLE, POSITIVE BREAK, MINIATURE, TOGGLE SEALED, PRINTED CIRCUIT BOARD TERMINALS, DOUBLE POLE, 469 MOUNTING BUSHING	SPECIFICATION SHEET NUMBER <b>MS21357H</b> 4 Sep 1991 SUPERSEDING MS21357G 15 Dec 1989 AMSC N/A FSC 5930
REVIEW Air Force-11 99 Navy-EC USER PROJECT NUMBER 5930-1454-12	DISTRIBUTION STATEMENT A Approved for public release, distribution is unlimited	

# Detail requirements.

(H)	MS dash no. (e) (g)	Circuit made between terminals as indicated with the toggle lever in these positions (a)			Current capacity in amperes						Low current level switching 5 mV
					Resistive load			Inductive load			
		Opposite keyway side (d)	Center position	Keyway tab side (d)	28 V dc	115 V 60 Hz ac	400 Hz ac	28 V dc	115 V 60 Hz ac	400 Hz ac	
SEE NOTE (f)	-711-211		off	on 1-2,4-5							
	-721-221	on 2-3, 5-6	none	off							
	-731-231			on 1-2,4-5							
	-741-241			none							
	-771-271	mom-on 2-3, 5-6		mom-on							
	-781-281	none	off	1-2							
	-811-311	on 2-3, 5-6		4-5							
	-821-321 (f) (f)	none			5	2	3	(b) 1	1	2	(c) 25 $\mu$ A
	-831-331 (f) (f)	on 2-3, 5-6	on	on 1-2, 4-5							
	-841-341 (f) (f)	mom-on 2-3, 5-6	2-3	mom-on							
	-851-351 (f) (f)	on 2-3, 5-6	4-5	1-2 4-5							

SEE NOTE (f)

- (a) Direction of movement of internal mechanism is opposite to the direction of the toggle movement.
- (b) With time constant of .020  $\pm$  .002 seconds.
- (c) Contact resistance not to exceed 50 $\Omega$  during life, low current level switching.
- (d) Non-functional terminals shall not be supplied.
- (e) Dielectric withstanding voltage: 1200 V rms at sea-level (center on circuits).
- (f) Delayed action of the switch toggle lever may cause circuit to close or open before snap action mechanism trips.
- (H) (g) 700 and 800 series toggle seal: 15 foot head (water).  
200 and 300 series toggle seal: 1/2 inch head (water)

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